MBSS Spring Sampling

Physical Habitat Assessment





MBSS SPRING HAE	BITAT DATA SHEET Page Of
SITE Watershed Code Segment Type Ye DATE Month Day	ear Reviewer. First Second
Dist. from Nearest Road to Site (m) Trash Rating 0 - 20 LANDUSE (Y/N) Old Field Residential Commercial/Industrial Cropland Pasture Orchard/Vineyard/Nursery Golf Course ROAD CULVERT STREAM GRADIENT Location (m) Height (m) Present in Segment? (Y/N) Vidth of Culvert (m) 1 Length of Culvert (m) 1 Length of Culvert (m) 1 Land Time Present in Segment? (Y/N) 1 Length of Culvert (m) 1 Length of Culvert (m) 1 Land Time Present in Segment? (Y/N) 1 Length of Culvert (m) 1 Length of Culvert (m) 1 Length of Culvert (m) 1 Land Time Present in Segment? (Y/N) 1 Length of Culvert (m) 1 Le	RIPARIAN VEGETATION (facing upstream) LEFT BANK RIGHT BANK Width (50m max) Adj. Land Cover Veg Type Buffer Breaks (Y/N) BUFFER BREAKS LEFT BANK RIGHT SANK Storm Drain Tile Drain Imperv. Drainage New Construction Orchard Crop Pasture Gully Dirt Road Gravel Road Raw Sewage
CHANNELIZATION Evidence of Channel Straightening or STATE ST	Buffer Break Types (M = Minor; S = Severe) Actual Site Midpoint Coordinates (Taken at Time of Sampling) Lat Long Stream Blockages Stream Block Ht. (m) Stream Block Type Lat Long Long Lat Long Stream Block Type Lat Long



______ Dist. from Nearest Road to Site (m) _____ Trash Rating 0 - 20

Distance : Measure (or estimate if appropriate) distance from nearest road, parking lot, or other access point.

Trash Rating: Scored on scale from 0-20; based on criteria on Stream Habitat Assessment Guidance Sheet

Count ... trash, tires, railroad ties, and industrial refuse

<u>Do Not Count</u>...bare soil, AMD discoloration, iron bacteria, rip rap, gabion baskets, concrete trapezoid, etc.

Trash Rating







Habitat Parameter	Optimal	Sub-Optimal	Marginal	Poor
	16-20	11-15	6-10	0-5
8. Trash Rating (h)	Little or no human refuse visible from stream channel or riparian zone	Refuse present in minor amounts	Refuse present in moderate amounts	Refuse abundant and unsightly



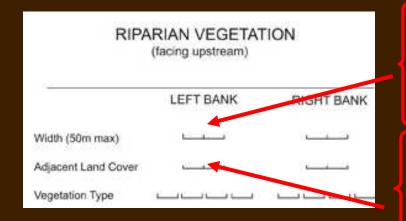
Surrounding Land Use

LANDUSE (Y/N)			
Old Field	Residential		
Deciduous Forest	Commercial/Industrial		
Coniferous Forest	Cropland		
Wetland	Pasture		
Surface Mine	Orchard/Vineyard/Nursery		
Landfill	Golf Course		

• Record any land use type that can be observed while in or alongside the site.



Riparian Vegetation Characterization



Measure width of vegetated riparian buffer on each side of stream. (Max width = 50m)

No vegetation = No Buffer

Record the dominant type of land cover directly adjacent to the riparian buffer.

Riparian Buffer vegetation

Adjacent land cover

Riparian Buffer Zone / Adjacent Land Cover Types

FR = Forest

OF = Old Field

EM = Emergent Vegetation

LN = Mowed Lawn

TG = Tall Grass

LO = Logged Area

SL = Bare Soil

RR = Railroad

PV = Paved Road

PK = Parking Lot / Industrial /

Commerical

GR = Gravel Road

DI = Dirt Road

PA = Pasture

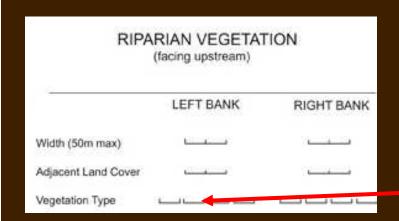
OR = Orchard

CP = Cropland

HO = Housing



Buffer Vegetation Type



VEGETATION TYPES

G= Grasses/Forbes

R= Regen Deciduous/Shrubs (<4'dbh)

Y= Young Deciduous (4-12" DBH)

M= Mature Deciduous (12-24" DBH

O= Old Deciduous (>24" DBH)

A= Regen Coniferous (<4" DBH)

B= Young Coniferous (4-12" DBH)

C= Mature Coniferous (12-24' DBH

D= Old Coniferous (>24" DBH)

L= Lawn

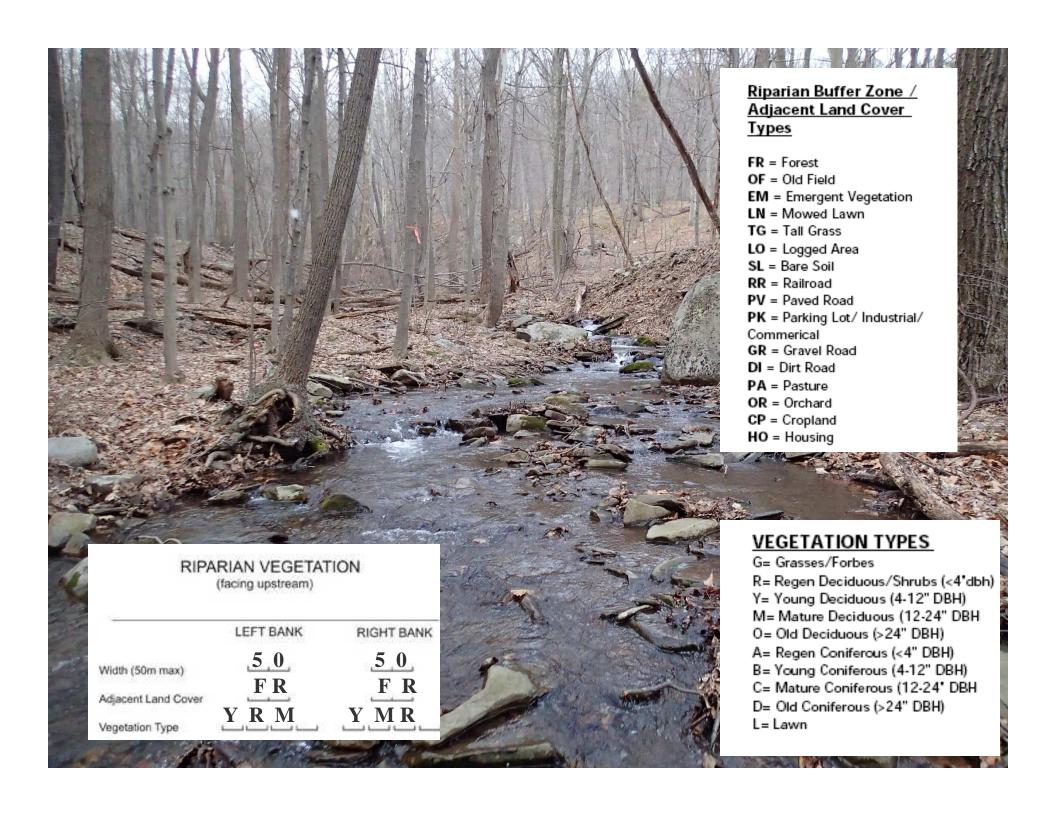
Record the dominant vegetation in the buffer

List vegetation type in order of dominance

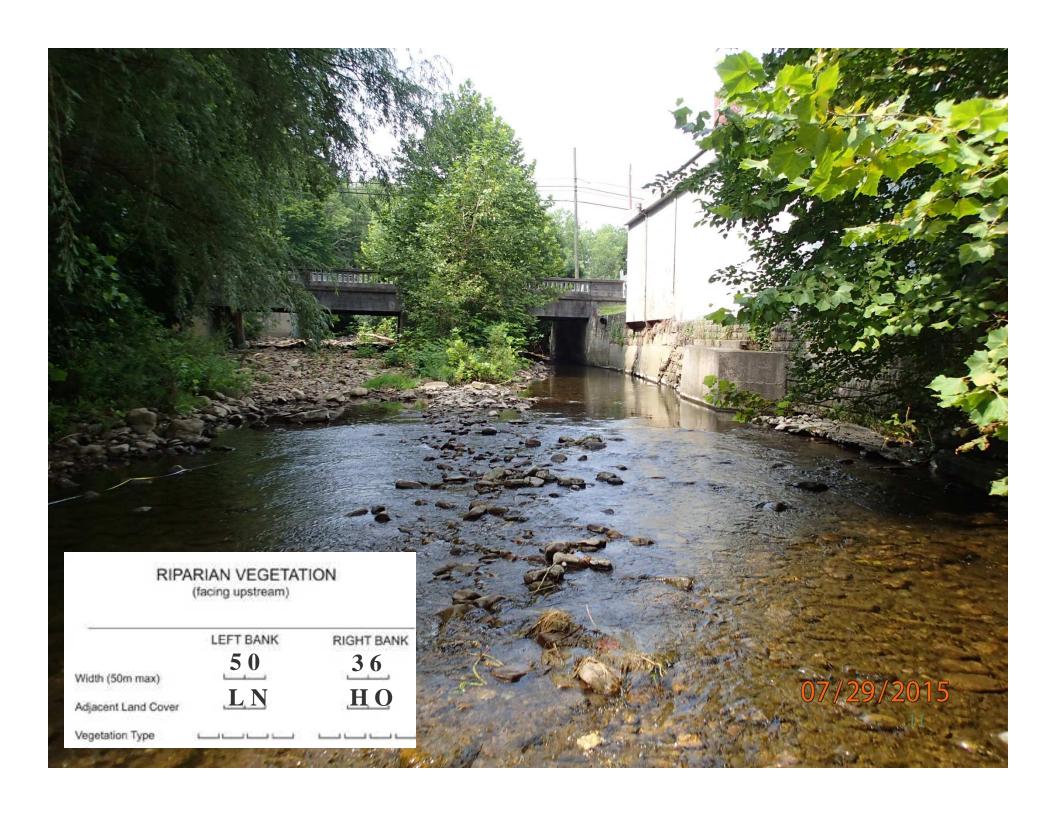
Dominance based on combination of stem density and canopy density.







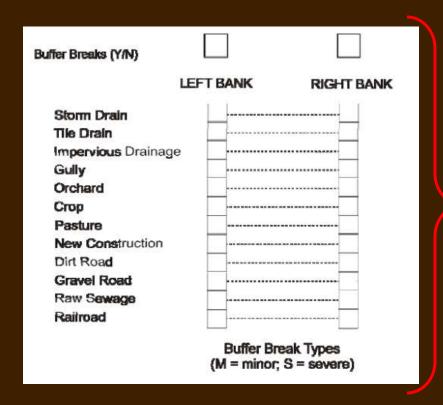








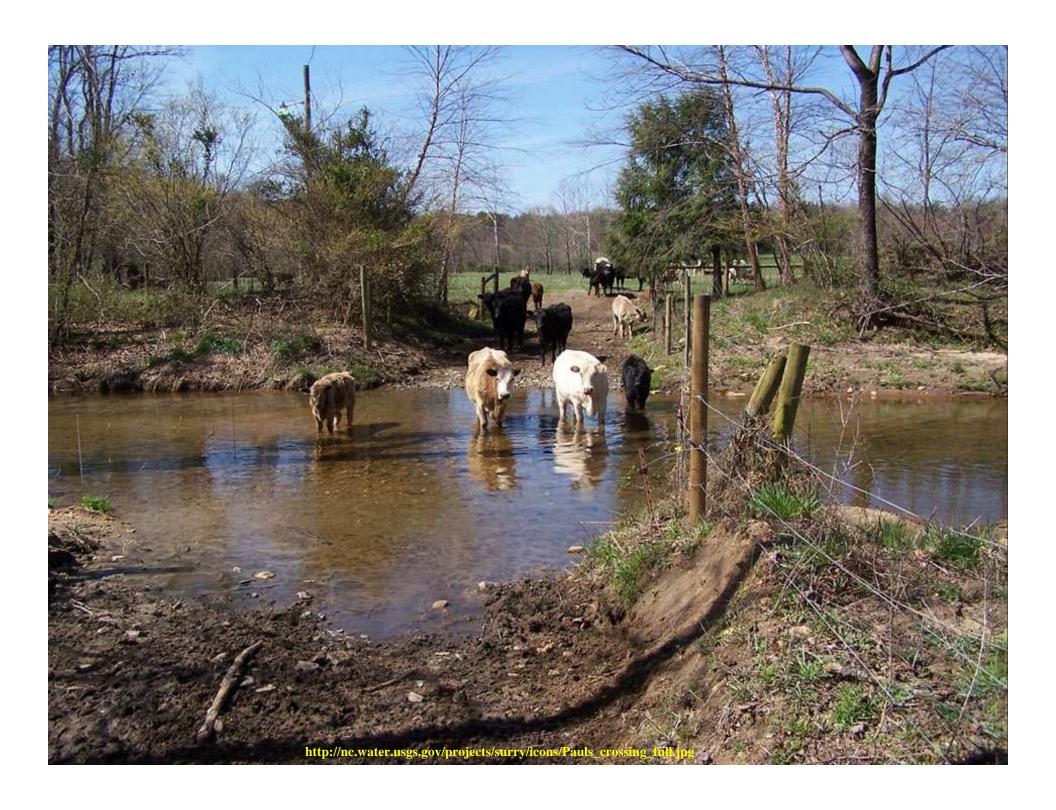
Buffer Breaks



Note any functional breaks in the riparian buffer on each side of the stream.

Indicate the type and severity of break.













Stream Channelization

TYPE	EXTENT (m)		
(7)(2	LEFT BANK	воттом	RIGHT BANK
Concrete			
Gabion			
Rip-Rap		-	
Earthen Berm		N/A	
Oredge Spoil Off Channel		N/A	
Pipe Culvert	2 2 2	1-1-1	

- Survey site for evidence of channel dredging or straightening and
- Indicate presence (Y) or absence (N).
- Indicate the type and linear extent in meters for each bank and for the stream bottom.





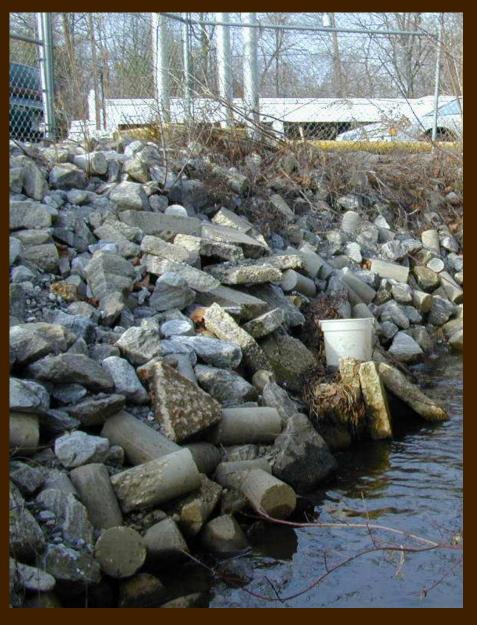


Dredge Spoils

Concrete Channel







Gabion Rip rap







Stone / Imbricated Wall

Culvert



Road Culvert

ROAD CULVERT

Present in Segment? (Y/N)

Sampleable? (Y/N)

Width of Culvert? (m)

Length of Culvert? (m)



If the road culvert is **NOT** sampleable,...

- 1) measure the linear length of culvert
- 2) add the measured distance to whichever end of the site is closer.



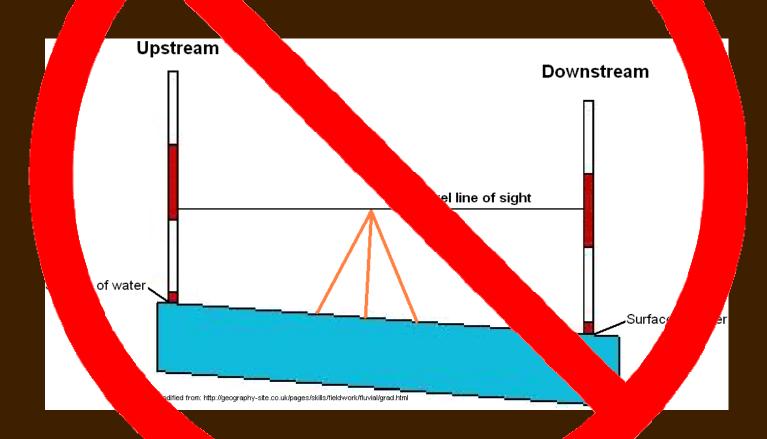


Sampleable

Not Sampleable



Stream Gradient



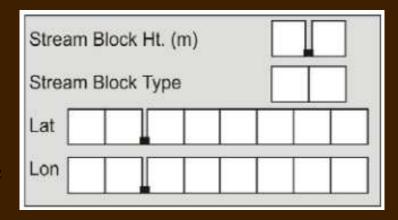


Stream Blockages





- Note on the data sheet the lat/long of any man-made migration barrier near the site.
- Also note height and type of blockage





Vernal Pools

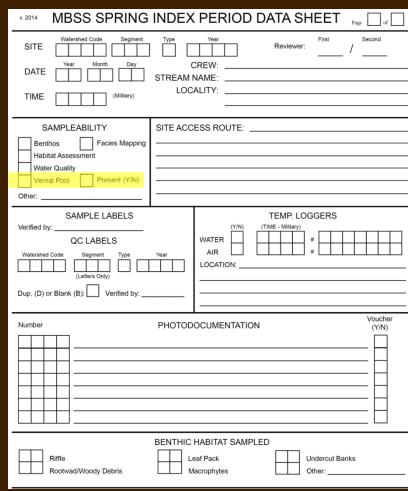
We also record presence/absence of vernal pools at every site

• Recorded on Spring Index Period Data Sheet

Definition:

Any well established seasonal/ephemeral pool, pond, or wetland

- 1. Small size
 - 1 m² to 4000 m² (1 acre)
- 2. No permanent surface water connections
- 3. Subject to seasonal drying
- 4. Supports a distinctive biological community

















MBSS Spring Sampling

Questions?

